# 70-534 Architecting Azure Solutions Exam Preparation

**Q: Do I need to do all the labs?**  
**A:** No, but if you do the labs, you strongly increase your likelihood of passing the exam!

## #1 [Design Azure Resource Manager (ARM) networking (5–10%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

* **Design Azure virtual networks - Extend on-premises**
* **Describe Azure VPN and Express Route architecture and design**

## #2 [Secure resources (20–25%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

## #3 [Design an application storage and data access strategy (5–10%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

* **Azure Storage Samples** <https://azure.microsoft.com/en-us/resources/samples/?service=storage>
* **Table Labs for .NET** <https://github.com/Azure-Samples/storage-table-dotnet-getting-started>
* **Blob Labs for .NET**<https://azure.microsoft.com/en-us/resources/samples/storage-blob-dotnet-getting-started/><https://github.com/Azure-Samples/storage-blob-dotnet-getting-started>
* **SAS Labs** <https://azure.microsoft.com/en-us/resources/samples/storage-dotnet-sas-getting-started/>

## #4 [Design advanced applications (20–25%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

* **Design Advanced Applications**

## #5 [Design Azure Web and Mobile Apps (5–10%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

* **Creating and Managing a Web App & Services** <https://github.com/dstolts/70-534/blob/master/Labs/WebAppsLab.pdf>
* **Creating and Managing a Mobile App** <https://github.com/dstolts/70-534/blob/master/Labs/MobileAppsLab.pdf>

### **Azure AD**

* **Creating and Managing a Mobile App** <https://github.com/dstolts/70-534/blob/master/Labs/MobileAppsLab.pdf>
* **.Net Calling a web API in a web app using Azure AD and OpenID Connect** <https://azure.microsoft.com/en-us/resources/samples/active-directory-dotnet-webapp-webapi-openidconnect/>
* **.NET Integrating a web app with Azure AD using WS-Federation** <https://azure.microsoft.com/en-us/resources/samples/active-directory-dotnet-webapp-wsfederation/>
* **Java Integrating Azure AD into a Java web application** <https://azure.microsoft.com/en-us/resources/samples/active-directory-java-webapp-openidconnect/>
* **Java Calling the Azure AD Graph API in a web application** <https://azure.microsoft.com/en-us/resources/samples/active-directory-java-graphapi-web/>
* **Node.js Integrating Azure AD into a NodeJS web application** <https://azure.microsoft.com/en-us/resources/samples/active-directory-node-webapp-openidconnect/>
* **Node.js Securing a web API with Azure AD** <https://azure.microsoft.com/en-us/resources/samples/active-directory-node-webapi/>

### **Lab Creating an Azure AD B2C and Connect an Application**

This lab provides the links to create an Azure AD B2C directory, a sample application and connect that application to the directory for authentication. There are several choices for the application so you can choose the one that makes the most sense to you.

* **Create an Azure AD B2C directory**

Below is a link to tutorial on how to create an Azure AD B2C directory from the azure documentation site:

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-get-started>

* **Note: Don’t skip Step 4 about how to link the Azure AD B2C tenant or you won’t be able to see all the settings.**
* Once you have the directory, tenant and linking done, you can now choose a tutorial to create an application to use that directory.
* Don’t worry - all tutorials use samples from github – so you won’t have to type all the application code.
* **iOS Application Tutorial:** Azure AD B2C: Sign-in using an iOS application  
  <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-devquickstarts-ios>
* **Android Application Tutorial:** Azure AD B2C: Sign-in using an Android application  
  <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-devquickstarts-android>
* **Node.js Web API Tutorial:** Azure AD B2C: Secure a web API by using Node.js  
  <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-devquickstarts-api-node>
* **.NET Web App Tutorial: Azure AD B2C: Sign-Up & Sign-In in a ASP.NET Web App** <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-devquickstarts-web-dotnet-susi>
* **.NET Web API Tutorial:** Azure Active Directory B2C: Build a .NET web API  
  <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-devquickstarts-api-dotnet>
* **Windows Desktop Tutorial:** Azure AD B2C: Build a Windows desktop app  
  <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-devquickstarts-native-dotnet>

## #6 [Design a management, monitoring, and business continuity strategy (20–25%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

* **Replicate Hyper-V virtual machines (without VMM) to Azure using Azure Site Recovery with the Azure portal** <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-hyper-v-site-to-azure>
* **Replicate physical machines to Azure by using Site Recovery** <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-physical-servers-to-azure>
* **My first graphical runbook** <https://docs.microsoft.com/en-us/azure/automation/automation-first-runbook-graphical>
* **My first PowerShell runbook** <https://docs.microsoft.com/en-us/azure/automation/automation-first-runbook-textual-powershell>
* **My first PowerShell Workflow runbook** <https://docs.microsoft.com/en-us/azure/automation/automation-first-runbook-textual>
* **Getting Started with Azure Automation DSC  
  Desired State Configuration (DSC)** <https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started>
* **How Azure Backup Works in 10 mins** <https://docs.microsoft.com/en-us/azure/backup/backup-try-azure-backup-in-10-mins>
* **Microsoft Azure Backup Server v2** *Docs:* <https://azure.microsoft.com/en-us/blog/announcing-microsoft-azure-backup-server/> *Download:* <https://www.microsoft.com/en-us/download/details.aspx?id=55269>
* **AzureRM.RecoveryServices.Backup (PowerShell)** <https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-automation>

## #7 [Architect an Azure Compute infrastructure (10–15%)](https://www.microsoft.com/en-us/learning/exam-70-534.aspx)

* **Design ARM Virtual Machines (VMs)**
* **Design ARM template deployment**
* **Design for availability**
* **+ Bonus: Containers**